

~~SECRET~~

The Files (R&D Branch)

29 July 1957

[redacted]

25X1A9A

[redacted] Trip Report - [redacted]

25X1

1. The transmitter site at [redacted] was visited from 1 May 1957 to 15 July 1957.

25X1A6B

2. Purpose: The purpose of the visit was to provide the technical support required to install the AS-4 equipment, modify the 231-D20 transmitter for use with the AS-4 terminal equipment, train two technically capable men to operate and maintain the equipment, and to conduct a series of operational tests to [redacted] and [redacted]

25X1A6B
25X1

3. Installation: Prior to my arrival a vault room had been constructed and the equipment was unpacked and placed in this room. Mr. [redacted] and myself proceeded with the installation of power leads, control cables and ground connections. The [redacted] was contracted to install the water pipes for the water cooled dummy loads for the 231-D20 transmitter. After the water pipes were installed, Mr. [redacted] obtained a water filter for our use. During the installation of the water pipes, transmitter modifications were completed. Photographs were taken of the installation and will be included in the engineering report.

25X1A9A

25X1A9A

4. Training: Mr. [redacted] were instructed in the operation and maintenance of the AS-4 terminal equipment. These men did most of the installation of the power wires, control cables and signal cables between the AS-4 terminal equipment and the 231-D20 transmitter. Both men assisted in the modifications necessary for operation of the 231-D20 transmitter. To acquaint these men with the circuits and their functions all internal adjustments were made to obtain the correct waveforms and timing sequences. Mr. [redacted] are capable of training transmitter station attendants to operate the AS-4 terminal equipment should they receive instructions to do so.

25X1A9A

25X1A9A

5. Testing: The writer was present for all test transmissions to [redacted] except for the last test series. No serious difficulties were experienced during these test transmissions except for the first day. On this day the Tape Transport exhibited a mechanical fault. Output on channel 7 from the exciter drawer was low for all test transmissions. These problems will be discussed thoroughly

25X1A6B

~~SECRET~~

~~SECRET~~

in the engineering report of the equipment. The tapes sent us for these tests were individual tapes of approximately 30 second transmission time. Of these tapes two thirds were of the Chadless type. [] prepared the tapes for transmission by using the individual tapes to make one tape for each days transmission schedule. This tape was then alternated with an NY tape to conform with the transmission schedules.

25X1A9A

25X1A9A



Lab/NCC/rkb (29 July 1957)

Distribution:

Original - Addressee

- 1 - R&D Lab
- 1 - Monthly Report ✓
- 1 - R&D Chrono
- 1 - Dev/s

~~SECRET~~